



TECHNICAL PROGRAMME

DAY 1

Wednesday 14th December 2022

07:30-08:45	Registration	Venue: IC&SR Building, IIT MADRAS
08:45-09:45	INAUGURATION	AUDITORIUM

Plenary Session 1 (10:00 - 10:50)

Plenary Session 1 Chair: Prof. Sundar V.		Venue: AUDITO 14 Dec. 2022	
10:00-10:10	About the IAHR Book: History of Water,	About the IAHR Book: History of Water, Dr Hyoseop Woo	
10:10-10:20	National Technological Centre for Ports, Waterways and Coasts, Prof. K. Murali		
10:20:-10:50	Keynote 1 Hybrid Defence System for Inundating T from a River - Prof. Norio Tanaka, Sa		

TEA BREAK (10:50 - 11:20)

Parallel Sessions 1 to 4 (11:20 - 12:50)

Parallel Session 1: River Hydraulics		.: River Hydraulics	Venue: AUDITORIUM
Chair: Prof. Hao-Che Ho; National Taiwan University 14 Dec. 2022 11:20-12:		14 Dec. 2022 11:20-12:50	
Time	Paper ID	Paper Title and Author(s)	
11,20	ID079	Maintenance of the Fairway at River Confluence Using Spur Dike	
11.20	11:20 ID078 V Raam Balaji, Malasani Gopichand, K Murali and Venu Chandra		rali and Venu Chandra
11.25	ID001	Prediction of Scour Depth Around Bridge Piers Using Artificial Neural Networks	
11:35 ID081 Siva Krishna Reddy and Venu Chandra		_	
	Modelling Morphological Processes in The Vicinity of River Mouth Due to		cinity of River Mouth Due to
11:50 ID140 Partial Closure of The River Mouth		Partial Closure of The River Mouth	-
		Avula Arun Kumar, Mutukuru Gangireddy Muni Reddy, P.V.L Narasingarao	
12:05	ID047	Total Load Transport model for Sand Bed Ri	vers
12:05	10047	Urvashi Malani, Sahita I. Waikhom and Sa	njay m. Yadav

Parallel Session 2: Computational Hydraulics Chair: Prof. Soumendra Nath Kuiry, IIT Madras Venue: HALL 1 14 Dec. 2022 11:20-		Venue: HALL 1 14 Dec. 2022 11:20-12:50	
Time	Paper ID	Paper Title and Author(s)	
11:20	ID082	Numerical Simulation of Hydrodynamics and Morpho dynamics in Thane Creek, India Mahadevan Aparna, Nandhakumar Saichenthur and Kantharaj Murali	
11:35	ID110	Comparison of Physical and Numerical Analysis to Study Effect of Discharge and Water Depth on Spillway Downstream Water Quality Sushma Vyas and Y. N. Srivastava	
11:50	ID065	Simulation of Bore Using Conservative Shallow Water Equations and ENO and WENO Schemes Srimathy K and K Murali	
12:05	ID096	A Mesh-Free Non-Newtonian Approach for N Naveed U,I Hassan Bhat, Gourabananda F	





		Numerical Investigations into Wave Attenuation Characteristics of Vegetation
12:20	ID113	Belt in Terms of Vortex Shedding Due to Different Arrangement Configuration
		N Hari Ram, Shaswat Saincher, V Sriram

		Climate Change	Venue: HALL 2
Chair: F	Chair: Prof. Balaji Narasimhan, IIT Madras 14 Dec. 2022 11:20-12:		14 Dec. 2022 11:20-12:50
Time	Paper ID	Paper Title and Author(s)	
11:20	ID157	Anticipated Effects of Climate Change in N	lew Zealand
11.20	לכוטו	Guinevere Nalder	
11:35	ID075	Climate Change and Crop Yield: Prediction	ns based on Machine Learning
11.55	10075	Arunya KG, Krishnaveni M	
		Do CMIP6 GCMs outperform CORDEX RCM	Is in simulating near-surface wind
11:50	ID129	speed climate over the Indian ocean?	
		Naresh Kumar Goud Lakku, Manasa Ra	anjan Behera
12:05	ID141	Climate adaptation along the German coast of the Baltic Sea	
12.05	10141	Dirk Fleischer, Arne Arns, Jürgen Stamm.	
		Long-Term Impacts of Climate Change on Reinforced Concrete Berthing	
12:20	ID060	Structures.	
		Santosh Kumar B, S A Sannasiraj, K Murali	
		Combined Storm Surge and River Flow Sir	mulation for The Hooghly Estuary,
12:35	ID067	East Coast of India.	
		B.Sridharan, Vikram Pratap Singh, Dhruba	jyoti Sen, Soumendra Nath Kuiry

	Parallel Session 4: Maritime Hydraulics		Venue: HALL 3
Chair: [Chair: Dr. T. Nasar, NITK, Surathkal 14 Dec. 2022 11:20-12:5		14 Dec. 2022 11:20-12:50
Time	Paper ID	Paper Title and Author(s)	
11:20	ID091	Hydrodynamic Investigation on Wind Effects on Wave Overtopping at Vertical Seawalls	
		Swapnadip De Chowdhury, Jian Guo Z	hou, Tim Pullen
11:35	ID061	Application of IITM-RANS3D to Wave-Breaking and Wave-Structure Interaction Problems Shaswat Saincher, V Sriram	
11:50	ID155	Numerical Investigation of Effect of Twin Island Structure and Its Impact on Burble Ankit Nehra, Vijayakumar R	
12:05	ID093	Numerical Investigation of Resonant Water Barge and a Vertical Wall Using the IMPLO Vineesh P, V Sriram	

LUNCH (12:50-13:50)





Parallel Sessions 5 to 8 (13:50-15:20)

	Parallel Session 5: Surface Water Resources Chair: Prof. Saif Said, Alighar Muslim University		Venue: AUDITORIUM 14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID019	Dibhang River Training Studies at Arunachal Pradesh, India P K Suresh, Sundaravadivelu Ranganathan and Nilanjan Saha	
14:05	ID015	Geospatial Assessment of Pallikaranai Marsh in Tamil Nadu (India) - A step towards urban flood resilience Reshma R , Soumendra Nath Kuiry	
14:20	ID135	Modelling on Monthly Streamflow Based on Two Different DEM Resolutions of Basins I Gede Tunas, Sukandi Samatan	
14:35	ID143	Effect Of Changes in Environmental Flow Cau Anthropogenic Changes on The Habitat of Ri Joo-Heon Lee , Seo-Yeon Park, Young-Jun H	ver Ecosystems.

		Environmental Management ip, IIT Madras	Venue: HALL 1 14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID055	Livelier River Quality Naturally Eny Suria Binti A Jalil, Nik Kun Bin Nik Man and Shanker Kumar Sinnakaudan	
14:05	ID026	Eliminating Fixation of Alternate Bars by Using Impermeable Groynes Ryotaro Endo, Takao Tamura and Yasunori Muto	
14:20	ID014	Dissolution And Precipitation Effect on Salinity Ingestion During Flowthrough Biotic and Abiotic Porous Media Bihung Narzary, Soumen Maji and Medalson Ronghang	
14:35	ID149	Performance Evaluation of surface wind speed estimates of observations of the West coast of India with Era-interim, IMDAA, NCEP-FNL, and Scatsat-1 Pabali Mukherjee	

		Maritime Hydraulics , IIT Bombay	Venue: HALL 2 14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID006	Numerical Modelling of Wave Impact on Flo Arya Thomas , V K Srineash and Manasa R	
14:05	ID033	Design of Breakwater with Permissible Overtopping Discharge Through Wave Flume Studies for The Development of Port A V Mahalingaiah , Uday B. Patil and Ganesh N. S.	
14:20	ID147	Wave Force on a Partially Immersed Caisson Supported on Piles Vasanthakumar S , Sannasiraj S.A, Sundar V, Karthik Ramanarayan S	
14:35	ID064	Numerical Analysis of Modular Floating Solar Farms Under Wave Motion. Dharma Sree K K, Adrian Wing-Keung Law, Dawn Sok Cheng Pang, Tan Sze Tiong, Wang Chien Looi, Jernice Kew Huiling, Seow Wei Kiong, Vincent Lim Han	
14:50	ID160	Hexagon Tetrapod for Seawall at Mukkache Chandramohan P V	ry





Parallel	Session 8:	Surface and Ground Water Resources	Venue: HALL 3
Chair: F	Chair: Prof. Suresh Kumar G., IIT Madras 14 Dec. 2022 13:50-15:20		14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID156	Performance Of Acoustic Doppler VECTRINO Profiler in Measurement of Velocity Profile in Mobile Bed Channel. Gurugubelli Yatirajulu , Laxman Rathod, P V Timbadiya, Bandita Barman	
14:05	ID052	Experimental Study of Turbulent Flow Characteristics Around a Circular Bridge Pier Siva Krishna Reddy, Venu Chandra	
14:20	ID048	Understanding the Driftage Behaviour of Mu Induced Flows on a Sloped Bed N. R. Josiah , S. Araki, D. P. C. Laknath	Iltiple Debris Due to Tsunami
14:35	ID133	Simulation-Optimization Based Inverse Groundwater Modelling to Estimate Aquifer Parameters K. Swetha, T.I. Eldho, L. Guneshwor Singh, A. Vinod Kumar	
14:50	ID107	Estimation of Surface Soil Moisture of The B Using SAR Remote Sensing Ahmed Hossain , Shampa	rahmaputra Basin in Bangladesh

TEA BREAK (15:20 - 15:50)

Plenary Session 2 (15:50 – 16:50)

Plenary Session	on 2	Venue: AUDITORIUM
Chair: Prof Radiant Triatmadja 14 Dec. 2022 15:50-10		14 Dec. 2022 15:50-16:50
15:50-16:20	Keynote 2 Experiences and observations from the Flood Disaster 2021 in Germany, DrIng. Holger Schüttrumpf, RWTH Aachen University, Germany	
16:20-16:50	Keynote 3 Ocean Waves as a Link Between Met Ocean Time Scales: Turbulence, Waves, Weather, Climate; and Between Environments: Deep Water, Coasts, Marginal Ice Zone, Prof. Alexander V Babanin, University of Melbourne, Australia.	

Special Session 1 and Parallel 9 to 10 (16:50-18:20)

Special Session to Honour Prof. V. Sundar Moderator: Prof. Sannasiraj S A & Prof. Sriram V	Venue: AUDITORIUM 14 Dec. 2022 16:50-18:20	
Invited Lectures		
Dr. Balaji Ramakrishnan, Professor, IIT – Bombay		
Mr. P. N. Ananth, Vice President and Head of Energy and Marine	Department, COWI India (P) Ltd.	
Dr. P.V. Chandramohan, President: Technical, Navayuga Engg. C	o. Ltd.	
Dr. R. Sundaravadivelu, Professor Emeritus, IIT- Madras		
Dr. K G S Sharma, General manager, RITES Ltd.		
Dr. L. Sheela Nair, National Centre for Earth Science Studies		
Mrs. R. Sukanya, Senior Engineer, National Technology Centre fo	or Ports Waterways and Coasts	





Parallel Session 9: Statistical Methods Venue: HALL 2		Venue: HALL 2	
Chair:	Chair: Prof. Nilanjan Saha, IIT Madras 14 Dec. 2022 16:50-1		14 Dec. 2022 16:50-18:20
Time	Paper ID	Paper Title and Author(s)	
16.50	TD.150	Case Study Using Artificial Intelligence and Machine Learning Methods to	
16:50	ID150	Predict Unknown Water Level in North Korean	
		Joo bum. Park, Seung Hee. Lee, Sun Iin. Kim	1
		Estimation of Probable Maximum Tropical Cycle	one Parameters for Bay of
17:05	ID130	Bengal and Arabian Sea.	
		Satish Kumar, Manasa Ranjan Behera, Saikri	shna Nadella, Vinod Kumar A
	Application Of ANFIS and Linear Regressions into Prediction of Reservoir		
17:20	17:20 ID100 Outflow.		
		Biswajit Nayak, Janhabi Meher, Minakshee Mahananda	
	A Data Driven Artificial Viscosity Method for Shock Capturing		ock Capturing
17:35	ID145	Rahul Saroj Gupta, Prabhakar Akurati, Ritwik G	Ghoshal, Debeneil Nag
Chowdhury			

Parallel	Parallel Session 10: Turbulence Modelling		Venue: HALL 3
Chair: [Chair: Dr. Soumendra Nath Kuiry, IIT Madras 14 Dec. 2022 16:50-18:2		14 Dec. 2022 16:50-18:20
Time	Paper ID	Paper Title and Author(s)	
16:50	ID001	Numerical simulation of submerged hydrau	ulic jump using a URANS model
10.50	10001	Seongwook Choi and Sung-Uk Choi	
17.0E	IDOAE	Turbulence anisotropy and length scales around a straight spur dike	
Tapas Kumar Pradhan and Venu Ch		Tapas Kumar Pradhan and Venu Chand	ra
	Numerical Modelling of Ship Waves and Induced Sediment Resuspension In		duced Sediment Resuspension In
17:20	17:20 ID162 The Hooghly River, India		
	Mainak Chakraborty, V Sriram, K Murali		
Experimental Study on Liquid Sloshing Dynamics in A Sway Excited		namics in A Sway Excited	
17:35	ID158	Rectangular Tank	
		Sahaj K.V, Shwetha Shri and T. Nasar	

ICE BREAKER (19:00 - 20:30)





DAY 2

Thursday 15th December 2022

Parallel Sessions 11 to 14 (09:00-10:30)

Parallel	Parallel Session 11: Surface Water Venue: AUDITORIUM		Venue: AUDITORIUM
Chair: [Chair: Dr. Vijaya Ravichandran, NIOT 15 Dec. 2022 09:00-10:3		15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID018	Estimation of Braided River Bathymetry in Poorly Gauged Rivers Using Optical Images for Estimation of River Erosion Mohammad Muddassir Islam, Israt Jahan Nejhum, Md Manjurul Hussain and Shampa	
09:15	ID138	In-Stream and Floodplain Sand Mining Impac Study of Thoubal River, Manipur, India Mukesh Kumar Yadav, Ngangbam Romeji and	
09:30	ID041	Evaluation Of Predictive Skill of Short-Term Raw Ensemble Forecasts for Mapping of Extreme Floods Nithila Devi. N, Soumendra Nath Kuiry	
09:45	ID097	On Applicability of Local Inertia Model for Integrated Surface-Subsurface Flow Systems. Alok Kumar, Gourabananda Pahar	
10:00	ID098	Depth-Averaged Modelling of the Free Surface Flows Subjected to Sharp Obstructions Naveed Ul Hassan Bhat, Gourabananda Pahar	
10:15	ID161	The Early-Warning System to Predict Sediment Flux in the Mountain Basin during Typhoon Events Hao-Che Ho.	

		: Maritime Hydraulics Modelling	Venue: HALL 1
_			15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID063	Simulation of Wave Climate and Wave Energ Lanka D. P. C. Laknath, I G I K Kumara , H.P.G.M.	,
09:15	ID092	A Meshless Numerical Method for Solving the Water Equations D Satyaprasad , S. Sundar, Soumendra Nat	
09:30	ID086	Mesh Transformation Effects in Three-Dimensional Hydrodynamic Modelling of The Gulf of Kachchh Thankachan Susmitha, Kanakkassery Raju Sidharth, Nandhakumar Saichenthur, Kantharaj Murali	
09:45	ID088	Analysis of trends in the significant wave height over the Northern Indian Ocean Dhanya Mol P , Agilan V., Anand K V.	
10:00	ID123	Effect Of Bottom Friction and Wind Drag Coefficient on Tropical Cyclone Storm Surge Hindcast in The Bay of Bengal V G Shashank, V. Sriram, Holger Schüttrumpf, S. A. Sannasiraj	
10:15	ID043	Experimental Investigation of Tsunami Bore Vegetation Harish S , B. Jochems, Jan Oetjen, Holger So Sannasiraj	_





Parallel	Parallel Session 13: Environmental Management Venue: HALL 2		
Chair: F	Chair: Prof. Indumathi Nambi, IIT Madras 15 Dec. 2022 09:00-10:		15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID108	A Study of Groundwater Contamination and Its from Medical Waste in Kokrajhar, Assam, North Pwjwngsar Basumatary, Soumen Maji, Yachan	h East India
09:15	ID016	The Study on The Hydraulic Control Concept of The Yodo River Basin That Utilizes a Part of The Reclaimed Land of The Ogura-Ike Pond as a Retarding Basin Yuko Ishida and Yoshiya Ogawa	
09:30	ID004	Investigation on the Performance of Attached Growth Biological System for Instream Treatment of Municipal Wastewater Mohammed Iqbal Thayyil and Ligy Philip	
09:45	ID114	Political Connectivity, Social Capital and Multidimensional Coastal Vulnerability Index in India Benisha G , Sabuj kumar Mandal, Unmesh Patnaik	
10:00	ID163	Fluid Ecologies, Sovereignty and Colonialism: Princely Contestations for Riverine Islands in Colonial India S. Mahendranath, John Bosco Lourdusamy	
10:15	ID142	The Environmental & Socioxeconomic Impacts the Local Communities in Chennai. Baria Yashvi, Braun Boris, Letmathe Peter, Pfa Christoph	·

Paralle	Session 14	: Coastal Hydraulics	Venue: HALL 3
Chair: [Or. Swapnadij	De Chaudhuri, IIT Khargapur	15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
Founding Level and Fixity Depth of Pile in Layer Soil with Weathered Rock		ayer Soil with Weathered Rock	
09:00 ID009 Sakthivel Sundaravadivelu, Sundaravadivelu Ranganathan, Kav Perumalsamy, Sowmiya S			ivelu Ranganathan, Kavitha
09:15	ID008	Scouring of Sandy Bed Around Curved Seawalls Due to Extreme Wave Events.	
		Daineymol Thomas and K V Anand	
09:30	ID164	Study on shoreline changes and coastal erosion along the Thiruvananthapuram coast of Kerala with particular reference to the Valiathura-Sankumugham sector L. Sheela Nair, Rafeeque M. K. and Jayakumar	
09:45	ID023	Stability Analysis of Breakwater In Andhra Pradesh Through Numerical Modelling Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu and Kavitha P	

TECHNICAL TOUR (10:30-19:00)

CULTURAL PROGRAMME (19:00-19:45)

BANQUET (19:45-21:45)





DAY 3

Friday 16th December 2022

Parallel Sessions 15 to 18 (09:00-10:30)

	Parallel Session 15: Water Quality Chair: Dr. Soumen Maji, Central Inst. of Tech., Kokrajhar		Venue: AUDITORIUM 16 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID094	Seasonal And Spatial Variation of Water Quality Parameters of Mula Mutha River, Pune, India. Jitesh Narottam Vyas, R. B. Deogade, Supriya Nath and Dudekula Nikhil Kumar	
09:15	ID011	Groundwater Quality Near the Nonai River in Udalguri District, Assam. Medalson Ronghang , Partha Jyoti Sarmah, Irfan Kamal, Soruj Das, Jintu Moni Kalita and Zico Zemin	
09:30	ID125	Study of Groundwater Quality and Its Sustainability Using GIS Techniques in Kokrajhar, Assam, North East India. Swdwmsri Brahma and Yachang Omo	
09:45	ID154	Risk Assessment and Fish Habitat with The St Yoshiaki Seki , Kohji Tanaka	age of River Improvement.

		.6: Maritime Hydraulics ali, IIT Madras	Venue: HALL 1 16 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID042	Influence of Cross Currents on Inland Vessel M Malasani Gopichand, Murali K And Venu Cha	
09:15	ID136	Dredging Practice in Indian Ports an Overview Hradaya Prakash , N G Gogate, L R Rangana	
09:30	ID151	Estimation of Maintenance Dredging Quantity Using Numerical Modelling Technique in Thane Creek Mandar Bharat Gavali, Balaji Ramakrishnan	
09:45	ID115	Modelling the Effects of Cyclones on Sediment Transport and Morphodynamics in Bay of Bengal Region Rohini S , Sannasiraj S.A., Sundar V., Dhananjayan M.	
10:00	ID159	Numerical Investigations on Different Shapes of Offshore Fish Cages Subjected to Regular Waves Shaik Abdul Shareef, Nasar Thuvanismail, Pawan Kumar, Eslavanth Sai Kiran Naik	

Paralle Chair:		.7: Surface Water Resources	Venue: HALL 2 16 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID148	A Review of Various Modelling Techniques Used for Flood Prediction, Susceptibility Analysis and Mapping in Mountainous Regions. Abhimanyu Singh Pathania , Mahesh Patel, Jagriti Mishra	
09:15	ID119	Disposal of Stormwater Flows Generated by Climate Change Induced Heavy Rainfall Events. Induka Werellagama, Gregory De Costa, Ajith Kularathna	
09:30	ID022	Simplified Process Model Representation of Low Impact Development Techniques for Watershed Scale Analysis Sreethu S, Balaji Narasimhan and S. Murty Bhallamudi	
09:45	ID066	River discharge control on tidal dynamics in Narmada estuary P Vengadesan , S A Sannasiraj, S Murty Bhallamudi	





		.8:Water Distribution & Sensor Network andra, IIT Madras	Venue: HALL 3 16 Dec. 2022 09:00-10:30	
Time	Paper ID	Paper Title and Author(s)		
09:00	ID030	A Study of Clean Water Supply After Earthquake at Lombok Uttara Regency, Indonesia. Ari Ramadhan Hidayat, Djoko Legono, Intan Supraba and Radianta Triatmadja		
09:15	ID035	Application Of Substitution Theorem for Reorganization of a Water Distribution Network. Raman Balireddy , Anjan Chakravorty, S. Murty Bhallamudi and Soumendranath Kuiry		
09:30	ID036	A Quick Method to Determine Tank Capacity in the Pipe Network Due to Daily Fluctuation of Domestic Water Demand. Radianta Triatmadja, Djoko Legono and Intan Supraba		
09:45	ID102	Comparing The Energy Consumption Routing Communication Technique in Underwater Aco Review. A.Kannappan and R.M.Bommi	· · · · · · · · · · · · · · · · · · ·	

TEA BREAK (10:30 - 11:00)

Plenary Session 3 (11:00 - 13:00)

Plenary Session 3		Venue: AUDITORIUM
Chair: Prof. Muku	und Babel, AIT Bangkok	16 Dec. 2022 11:00-13:00
	Keynote 4	
11:00-11:30	UAV-based Remote Sensing of Water Quality in	Coastal Environment for
	Engineering Applications- Prof. Adrian Wing-	Keung Law, NTU, Singapore
	Keynote 5	
11:30-12:00	Urban Floods in India: An Emerging Hydrologic Challenge,	
	Prof. Mujumdar P. P., IISc Bangalore, Ind	lia
	Keynote 6	
12:00-12:30	The need for and characterization of fully devel	loped flow in open channels.
Prof. Ram Balachandar, University of Windsor, Canada		
Keynote 7		
12:30-13:00	Applications of Systems Analysis Techniques to Resolve Inter-State Water	
	Sharing Disputes, Prof. Jain S.K., IIT Roorke	ee, India

LUNCH (13:00 – 13:50)

Special Session 2 and Parallel Sessions 19 to 20 (13:50-15:20)

Special Session 2: Water Security and Climate Adaptation Chair: Dr. Yuko Ishida, Setsunan University			Venue: AUDITORIUM 16 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	-	Invited Lecture: Prof. Mukand Singh Babel	
14:05	ID068	Assessment of Water Quality in Indravati Subbasin using ARCSWAT Yuvaraja P , Manjula R., Venkateswarlu Ch.	
14:20	ID128	Tropical Cyclone Activity Under Climate Change Over North Indian Ocean Raviraditya Singh and Manasa Ranjan Behera	





14:35	ID083	Flood Risk Assessment in The Yamato River System Under Climate Change Using Large-Scale Ensemble Data. Daiki Omori, Kohji Tanaka and Akira Kurihara
14:50	ID126	Assessment Of Coastal Vulnerability Considering Future Extreme Events Ashiq Ahmed M , Nilanjan Saha, Sannasiraj S A.

Parallel Session 19: Surface & Ground Water Resources Chair: TBC			Venue: HALL 2 16 Dec. 2022 13:50-15:20	
Time	Paper ID	Paper Title and Author(s)		
13:50	ID058	Comparative Evaluation of Monthly Rainfall Estimates Using Gene Expression Programming and Multiple Linear Regression Azazkhan i. Pathan, and Saif Said		
14:05	ID027	A Critical Review on Flow Over Fluvial Bed-Forms and Research Directions Mahesh Patel, Ajaz Ahmad mir and Bimlesh Kumar		
14:20	ID070	By-Pass Tunnel- A lifeline for Run-Of-River Hydro Projects M. K. Verma, M Z Gamar, A P Meshram and DR Neena Isaac		
14:35	ID152	Numerical Study on Flow Behaviours of a Tidal River Junction Lihan Hu, Jianjun Han, Pengcheng Xu, Xu Yang And Lingling Wang		

Parallel Session 20: Maritime Hydraulics		0: Maritime Hydraulics	Venue: HALL 3	
Chair: TBC			16 Dec. 2022 13:50-15:20	
Time	Paper ID	Paper Title and Author(s)		
13:50	ID040	Estimation of Shoreline changes along Kozhikode coast using High-Resolution Remote Sensing Saikrishnan K., K.V. Anand and Agilan V.		
14:05	ID117	Efficiency Improvements from Rounded Oscillating water Column entrances and Implications for Coastal Protection Lachlan Hick, Danica Tothova, Richard Manasseh , S. A. Sannasiraj		
14:20	ID104	Shoreline Oscillations Around a Pair of Breakwaters at Ponnai Fishery Harbour in Kerala Kunhimammu Paravath, Nasar T		
14:35	ID112	Coastal Morphological Changes Due to The Ni India Gracy Margret Mary R , Sannasiraj S A, Sur	·	
14:50	ID111	An Empirical Model for Natural Beach Erosion Under Waves Ye Htet Oo, Hong Zhang		
15:05	ID118	Digital Transformation for Managing Offshore S Karunanithi , Praveen Bhat, Nitin Nehra, A		

VALEDICTORY & CLOSING (15:20 – 1	L6:20)	
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HIGH TEA (16:30 - 17:00)